	Application No.	Applicant(s)	_
	10/632,730	FJELSTAD ET AL.	
Notice of Allowability	Examiner	Art Unit	
	Andy Huynh	2818	
The MAILING DATE of this communication app All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.31	6 (OR REMAINS) CLOSED ) or other appropriate comn RIGHTS. This application is	in this application. If not included nunication will be mailed in due course. <b>THIS</b>	е
1. $\boxtimes$ This communication is responsive to <u>the Amendment date</u>	ed 12/09/2004.		
2. The allowed claim(s) is/are 1,4-17 and 19-23.			
3.   The drawings filed on 31 July 2003 are accepted by the E	xaminer.		
<ul> <li>4. Acknowledgment is made of a claim for foreign priority unany All by Some* cy None of the: <ol> <li>Certified copies of the priority documents have</li> <li>Certified copies of the priority documents have</li> <li>Copies of the certified copies of the priority documents have</li> <li>Topies of the certified copies of the priority documents have</li> </ol> </li> <li>* Certified copies not received:</li> </ul>	e been received. e been received in Applicat	on No	
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDON! THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		e a reply complying with the requirements	
5. A SUBSTITUTE OATH OR DECLARATION must be subn INFORMAL PATENT APPLICATION (PTO-152) which giv			
6. CORRECTED DRAWINGS ( as "replacement sheets") mu			
(a) ☐ including changes required by the Notice of Draftsper	=	w ( PTO-948) attached	
<ol> <li>1) ☐ hereto or 2) ☐ to Paper No./Mail Date</li> <li>(b) ☐ including changes required by the attached Examiner Paper No./Mail Date</li> </ol>		or in the Office action of	
Identifying indicia such as the application number (see 37 CFR each sheet. Replacement sheet(s) should be labeled as such in			
7. DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT			
Attachment(s) 1. ☐ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)	6. Interview	nformal Patent Application (PTO-152) Summary (PTO-413), ./Mail Date	
<ul> <li>3. Information Disclosure Statements (PTO-1449 or PTO/SB/Paper No./Mail Date 9/28/04</li> <li>4. Examiner's Comment Regarding Requirement for Deposit of Biological Material</li> </ul>	08), 7. 🗌 Examiner'	s Amendment/Comment s Statement of Reasons for Allowance	
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	_	Indu Muyral Patent Examinar	

## **DETAILED ACTION**

In the Amendment dated December 09, 2004, claims 2, 3 and 18 are canceled, and claims 1, 4-11, 14 and 17 are amended is acknowledged. Accordingly, claims 1, 4-17 and 19-23 are currently pending in this application.

## Allowable Subject Matter

The following is an examiner's statement of reason for allowance:

Claims 1, 4-10, 12 and 13 are allowable over the prior art of record because the prior art of record does not teach or render obvious a multilayered circuit component comprises, in combination with all other features, the first trace element and the second trace element each form a pedal shaped support element on the first surface as recited in independent claim 1.

Claim 11 is allowable over the prior art of record because the prior art of record does not teach or render obvious a multilayered circuit component comprises, in combination with all other features, the first trace element has a radius of curvature that defines a first circle, the second trace element has a radius of curvature that defines a second circle, and wherein the first trace element and the second trace element each have an arc length that is less than 50% of a circumference of the corresponding first or second circle.

Claims 14-16 are allowable over the prior art of record because the prior art of record does not teach or render obvious a multilayered circuit component comprises, in combination with all other features, each aperture is shaped to receive a corresponding male connector element that can extend into the aperture and make electrical contact with the one or more trace elements that are provided in that aperture, so that another layer comprising an array of male

connectors is matable with the component using the array of apertures of the surface as recited in independent claim 14.

Claim 17 is allowable over the prior art of record because the prior art of record does not teach or render obvious a multilayered circuit component comprises, in combination with all other features, the first partial perimeter of the first opening has a first radius of curvature, the second partial perimeter of the first opening has a second radius of curvature, and another perimeter portion of the opening has a third radius of curvature, wherein at least the third radius of curvature is different than the first radius of curvature and the second radius of curvature.

Claims 19-23 are allowable over the prior art of record because the prior art of record does not teach or render obvious a multilayered circuit component comprises, in combination with all other features, a plurality of trace element clusters, each trace element cluster extending inward from the first surface of the first layer to an other surface of the multi-surfaced circuit component, wherein each trace element cluster includes at least (i) a first trace element for providing a first connection to one or more current bearing components on the other surface that the first trace element extends to, and (ii) a second trace element for providing a second connection to one or more current bearing components on the other surface that the second trace element extends to as recited in independent claim 19.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance".

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Conclusion

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Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Andy Huynh whose telephone number is (571) 272-1781. The

examiner can normally be reached on Monday-Friday 8:30am-5:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, David Nelms can be reached on (571) 272-1787. The fax phone numbers for the

organization where this application or proceeding is assigned are (703) 872-9306 for regular

communications and (703) 872-9306 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding

should be directed to the receptionist whose telephone number is (703) 308-0956.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Ah

Andy Huynh

andy New Q

12/24/04

Patent Examiner